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MINIMUM DAILY NUMBER OF SUN-SPOT GROUPS.

MONTHS.	1890.	1891.	1892.	1893.	1894.	1895.
January . .		0	2	2	4	3
February .		0	1	2	4	3
March . . .		0	1	3	3	4
April . . .		1	2	4	3	5
May		2	4	6	3	1
June . . .		1	4	5	5	4
July		2	3	4	4	
August . .	0	0	4	6	2	
September .	0	1	3	4	2	
October . .	0	3	2	5	2	
November .	0	2	3	4	3	
December .	0	1	2	2		

ALTA, IOWA, October 9, 1895.
Latitude, 42° 40′ N.
Longitude, 6h. 21m. W.

DOUBLE-STAR MEASURES.

BY R. G. AITKEN.

The following measures were made with the twelve-inch equatorial of this observatory. The position angle is usually the mean of four settings, and the distance that of three (occasionally four) double-distances. The position of the stars is given for 1880.0. The seeing is estimated by a scale on which 5 stands for the best conditions. The eye-piece used in most of the measures has a power of 545 diameters; but a few measures were made with lower powers.

Σ 13.

R. A. $0^h\ 9^m\ 25^s$. Decl. +76° 17′.

	θ_o	ρ_o	MAGNITUDE.	SEEING.
1895.664	81°.7	0″.73	6.2 - - 6.2	4+
1895.681	84 .3	0 .81	6.2 - - 6.2	3+
1895.692	86 .4	0 .79	6.2 - - 6.3	3
1895.68	84°.1	0″.78	6.2 - - 6.2	

Σ 60 (*η Cassiopeiæ*).

R. A. $0^h\ 41^m\ 51^s$. Decl. $+57°\ 18'$.

	θ_o	ρ_o	MAGNITUDE.	SEEING.
1895.664	203°.1	4″.96	4 - - - 7.8	4
1895.672	204 .1	5 .06	4 - - - 7.5	3+
1895.681	205 .1	4 .75	4 - - - 7.5	4+
1895.67	204°.1	4″.92	4 - - - 7.6	

β 120 (*ν Scorpii*).

R. A. $16^h\ 5^m\ 1^s$. Decl. $-19°\ 9'$.

A B.

1895.462	0°.5	0″.88	6 - - - 6.5	3
1895.489	5 .2	0 .75	6 - - - 6.5	2+
1895.505	2 .7	0 .79	6 - - - 6.5	3+
1895.48	2°.8	0″.81	6 - - - 6.5	

C D.

1895.462	44°.2	1″.90	7.0 - - 8.5	3
1895.489	42 .7	1 .87	7.5 - - 8.5	2+
1895.500	40 .9	1 .90	7.0 - - 8.0	2+
1895.48	42°.6	1″.89	7.2 - - 8.3	

β 624.

R. A. $16^h\ 15^m\ 41^s$. Decl. $-22°\ 50'$.

1895.615	315°.4	1″.29	8 - - 9.2	4
1895.634	318 .5	1 .08	8.2 - - 9.8	4
1895.642	314 .3	1 .07	8.1 - - 9.8	3
1895.63	316°.1	1″.15	8.1 - - 9.6	

β 241.

R. A. $16^h\ 48^m\ 24^s$. Decl. $-21°\ 22'$.

1895.615	164°.9	0″.80	7 - - - 7.1	3+
1895.634	161 .3	0 .60	7 - - - 7.3	3+
1895.642	160 .1	0 .73	7 - - - 7.1	3
1895.63	162°.1	0″.71	7 - - - 7.2	

β 357.

R. A. $16^h\ 59^m\ 52^s$. Decl. $+10°\ 43'$.

1895.519	304°.3	1″.24	8.0 - - 9.3	3+
1895.527	299 .6	1 .38	8.3 - - 9.2	2+
1895.598	303 .5	1 .32	8.3 - - 9.4	3+
1895.55	302°.5	1″.31	8.2 - - 9.4	

β 823.

R. A. 17h 0m 29s. Decl. +0° 49′.

	θ_o	ρ_o	Magnitude.	Seeing.
1895.634	6°.0	0″.77	8.4 - - 9.3	3+
1895.642	4 .4	0 .99	8.1 - - 9.3	3
1895.738	8 .7	0 .79	8.3 - - 9.5	3+
1895.67	6°.4	0″.85	8.3 - - 9.4	

E. E. B. No. ?.

R. A. 17h 7m 38s. Decl. −8° 16′.

1895.481	144°.9	2″.05	. . . . .	4
1895.519	147 .6	2 .12	7.8 - 12.0	4
1895.598	154 .1	2 .02	8.2 - 12.4	3+
1895.53	148°.9	2″.06	8.0 - 12.2	

Σ 2140 (α *Herculis*).

R. A. 17h 9m 10s. Decl. +14° 32′.

1895.462	115°.3	4″.77	3.5 - - 6.0	3
1895.470	114 .0	4 .81	. . . . .	4
1895.480	113 .5	4 .96	3.5 - - 6.0	4
1895.47	114°.3	4″.85	3.5 - - 6.0	

β 1121. (B. D. +12° 3264.)

R. A. 17h 31m 52s. Decl. +12° 37′.

1895.634	235°.6	0″.56	8.3 - - 9.5	3+
1895.681	236 .1	0 .70	8.5 - - 9.5	4+
1895.708	236 .2	0 .58	8.5 - - 9.5	3
1895.67	236°.0	0″.61	8.4 - - 9.5	

A. C. 7.

R. A. 17h 41m 47s. Decl. +27° 48′.

1895.505	43°.6	1″.10	10 - 10	3
1895.514	45 .3	1 .17	10 - 10.2	4
1895.708	43 .9	1 .14	10 - 10	3+
1895.58	44°.3	1″.14	10 - 10.1	

H_1 41.

R. A. 17h 42m 17s. Decl. +72° 59′.

1895.653	337°.1	1″.41	7.8 - - 8.0	3
1895.672	337 .9	1 .43	7.8 - - 8.0	4+
1895.681	340 .1	1 .43	7.8 - - 8.0	4
1895.67	338°.4	1″.42	7.8 - - 8.0	

β 47.

R. A. $17^h\ 54^m\ 32^s$. Decl. $-10°\ 14'$.

	θ_o	ρ_o	MAGNITUDE.	SEEING
1895.615	278°.0	1″.57	8.2 - 10.4	4+
1895.634	277 .5	1 .45	7.8 - 10.5	4
1895.642	275 .9	1 .38	8.0 - 10.4	3
1895.63	277°.1	1″.46	8.0 - 10.4	

β 283. (B. A. C. 6088.)

R. A. $17^h\ 54^m\ 38^s$. Decl. $-22°\ 47'$.

1895.514	237°.7	8″.69	6 - - - 13	4
1895.519	237 .1	8 .21	6.3 - - 13	4
1895.598	238 .2	8 .44	6 - - - 13	3
1895.54	237°.7	8″.45	6.1 - - 13	

β 1127. (Groombr. 2500.)

R. A. $17^h\ 58^m\ 59^s$. Decl. $+44°\ 13'$.

1895.598	147°.6	0″.90	8 - - 10.0	3
1895.615	146 .5	0 .90	8 - - 10.2	3+
1895.738	148 .2	0 .77	7.5 - 10.5	4
1895.65	147°.4	0″.86	7.8 - 10.2	

Σ 2272. (70 *Ophiuchi.*)

R. A. $17^h\ 59^m\ 23^s$. Decl. $+2°\ 33'$.

1895.481	300°.6	2″.43	4 - - - 8	3
1895.681	298 .1	2 .29	3.5 - - 7.3	4
1895.692	298 .3	2 .26	3.5 - - 7.5	3
1895.62	299°.0	2″.33	3.7 - - 7.6	

β 132.

R. A. $18^h\ 4^m\ 7^s$. Decl. $-19°\ 52'$.

1895.514	222°.6	0″.83	7 - - - 7.2	3+
1895.519	220 .5	0 .73	7 - - - 7.4	3+
1895.598	224 .0	0 .75	7 - - - 7.2	3
1895.54	222°.4	0″.77	7 - - - 7.3	

β 465.

R. A. $18^h\ 41^m\ 38^s$. Decl. $+56°\ 45'$.

	θ_o	ρ_o	MAGNITUDE.	SEEING.
1895.598	292°.1	3″.15	8 - - 10.1	3+
1895.609	291 .4	3 .20	8 - - 10.5	3
1895.730	294 .9	3 .04	8.3 - 10.5	3+
1895.64	292°.8	3″.13	8.1 - 10.4	

β 1135. (L. 39561.)

R. A. $20^h\ 25^m\ 10^s$. Decl. $+45°\ 20'$.

1895.749	338°.4	1″.34	8 - - 11.0	3
1895.768	333 .2	1 .22	8 - - 11.5	4+
1895.815	338 .7	1 .64	8.3 - 11.8	3
1895.78	336°.8	1″.40	8.1 - 11.4	

β 1036. (Yarn. 9529.)

R. A. $21^h\ 40^m\ 59^s$. Decl. $-17°\ 51'$.

1895.749	209°.8	4″.61	8 - - 11.5	3+
1895.790	209 .4	4 .68	8 - - 11.5	4
1895.815	208 .5	4 .82	8 - - 12.0	3
1895.78	209°.2	4″.70	8 - - 11.7	

Σ 3012–13.

R. A. $23^h\ 21^m\ 34^s$. Decl. $+15°\ 58'$.

		A B.		
1895.768	267°.3	3″.05	7.8 - - 9.5	4+
1895.812	272 .1	2 .98	7.8 - - 9.3	4+
1895.815	270 .2	2 .67	7.8 - - 9.3	3
1895.80	269°.9	2″.90	7.8 - - 9.4	
		C D.		
1895.768	188°.4	2″.35	8.7 - - 8.8	4+
1895.812	191 .6	2 .54	8.7 - - 8.8	4+
1895.815	188 .0	2 .38	8.7 - - 8.8	3
1895.80	189°.3	2″.42	8.7 - - 8.8	
		A C.		
1895.768	243°.6	52″.54	7.8 - - 8.7	4+
1895.812	244 .5	53 .82	7.8 - - 8.7	4+
1895.815	244 .2	54 .31	7.8 - - 8.7	3
1895.80	244°.1	53″.56	7.8 - - 8.7	

β 733. (85 *Pegasi.*)

R. A. $23^h\ 55^m\ 52^s$. Decl. $+26°\ 27'$.

		A B.		
	θ_o	ρ_o	MAGNITUDE.	SEEING.
1895.681	186°.2	0″.73	5.5 - 12.0	4+
1895.692	188 .2	0 .88	5.6 - 11.5	2+
1895.702	185 .6	0 .86	5.6 - 12.0	2+
1895.708	184 .4	0 .91	5.5 - 12.0	3
1895.730	182 .4	0 .86	5.5 - 11.5	4
1895.738	188 .2	0 .91	5.5 - 11.5	4+
1895.71	185°.8	0″.86	5.5 - 11.8	
		A C.		
1895.672	348°.3	29″.27	5.5 - - 8.8	4+
1895.681	348 .6	29 .36	5.5 - - 8.6	4+
1895.692	349 .2	29 .17	5.6 - - 9.0	2+
1895.68	348°.7	29″.27	5.5 - - 8.8	

β 997. (L. 47215.)

R. A. $23^h\ 58^m\ 46^s$. Decl. $+45°\ 1'$.

1895.681	337°.5	4″.23	7.8 - - 8.8	4+
1895.692	340 .7	4 .06	8.0 - - 9.2	2+
1895.702	341 .1	4 .08	8.0 - - 9.2	2
1895.69	339°.8	4″.12	7.9 - - 9.1	

O Σ 547.

R. A. $23^h\ 59^m\ 12^s$. Decl. $+45°\ 9'$.

1895.672	124°.4	4″.51	7.8 - - 7.8	4
1895.681	124 .2	4 .33	7.8 - - 7.8	4+
1895.692	124 .4	4 .29	8 - - 8	3
1895.68	124°.3	4″.38	7.9 - - 7.9	

LICK OBSERVATORY, October 28, 1895.